RECEIVED CENTRAL FAX GENTER

NO. 3410 P. 9

MAR 1 2 2009

Application No. 10/537,520 Amendment dated March 12, 2009 Docket No.: 68136(46342)

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A compound represented by formula:

$$(R^1)$$
 $\stackrel{S}{\underset{n}{\longleftarrow}} R^2$

[wherein, R1 represents (1) a halogen atom, (2) hydroxyl, (3) nitro, (4) an optionally halogenated C1-6 alkyl, (5) a C1-6 alkyl-carbonyl optionally having 1 to 5 substituents selected from (1') a halogen atom, (2') a C1-3 alkylenedioxy (3') nitro, (4') cyano, (5') a C1-6 alkyl which may be substituted with 1 to 5 halogen atoms, (6') a C₂₋₆ alkenyl which may be substituted with 1 to 5 halogen atoms, (7') a carboxy-C2-6 alkenyl, (8') a C2-6 alkynyl which may be substituted with 1 to 5 halogen atoms, (9') a C₃₋₈ cycloalkyl which may be substituted with 1 to 5 halogen atoms, (10') a C₆₋₁₄ aryl, (11') a C₁₋₆ alkoxy which may be substituted with 1 to 5 halogen atoms, (12') a C₁₋₆ alkoxy-carbonyl-C₁₋₆ alkoxy, (13') hydroxyl, (14') a C₆₋₁₄ aryloxy, (15') a C₇₋₁₆ aralkyloxy, (16') mercapto, (17') a C₁₋₆ alkylthio which may be substituted with 1 to 5 halogen atoms, (18') a C₆₋₁₄ arylthio, (19') a C₇₋₁₆ aralkylthio, (20') amino, (21') a mono-C₁₋₆ alkylamino, (22') a mono-C₆₋₁₄ arylamino, (23') a di-C₁₋₆ alkylamino, (24') a di-C₆₋₁₄ arylamino, (25') formyl, (26') carboxy, (27') a C₁₋₆ alkyl-carbonyl, (28') a C_{3-8} cycloalkyl-carbonyl, (29') a C_{1-6} alkoxy-carbonyl, (30') a C_{6-14} aryl-carbonyl, (31') a C_{7-16} aralkyl-carbonyl, (32') a C₆₋₁₄ aryloxy-carbonyl, (33') a C₇₋₁₆ aralkyloxy-carbonyl, (34') a 5- or 6membered heterocyclic carbonyl, (35') carbamoyl, (36') a mono-C₁₋₆ alkyl-carbamoyl, (37') a di-C₁₋₆ alkyl-carbamoyl, (38') a mono-C₆₋₁₄ aryl-carbamoyl, (39') a 5- or 6-membered heterocyclic carbamoyl, (40') a C₁₋₆ alkylsulfonyl, (41') a C₆₋₁₄ arylsulfonyl, (42') formylamino, (43') a C₁₋₆ alkylcarbonylamino, (44') a C₆₋₁₄ aryl-carbonylamino, (45') a C₁₋₆ alkoxy-carbonylamino, (46') a C₁₋₆ alkylsulfonylamino, (47') a C₆₋₁₄ arylsulfonylamino, (48') a C₁₋₆ alkyl-carbonyloxy, (49') a C₆₋₁₄ aryl-carbonyloxy, (50') a C1-6 alkoxy-carbonyloxy, (51') a mono-C1-6 alkyl-carbamoyloxy, (52') a di-C₁₋₆alkyl-carbamoyloxy, (53') a mono-C₆₋₁₄ aryl-carbamoyloxy, (54') nicotinoyloxy, (55') a 5- to 7-

2

Docket No.: 68136(46342)

membered saturated cyclic amino, (56') a 5- to 10-membered aromatic heterocyclic group and (57') sulfo (hereinafter simply referred to as Substituent group A);

- (6) a C₂₋₆ alkenyl-carbonyl optionally having 1 to 5 substituents selected from the Substituent group A;
- (7) a C₂₋₆ alkynyl-carbonyl optionally having 1 to 5 substituents selected from the Substituent group A;
- (8) a C₃₋₈ cycloalkyl-carbonyl optionally having 1 to 5 substituents selected from the Substituent group A;
- (9) a C₆₋₁₄ aryl-carbonyl optionally having 1 to 5 substituents selected from the Substituent group A; (10) a C₇₋₁₆ aralkyl-carbonyl optionally having 1 to 5 substituents selected from the Substituent group A;
- (11) a 5- to 14-membered heterocyclic carbonyl containing 1 to 4 hetero atoms, which are 1 or 2 different atoms selected from nitrogen, sulfur and oxygen atoms, in addition to carbon atoms (this heterocyclic carbonyl may have 1 to 5 substituents selected from the Substituent group A); (12) an amino optionally having 1 or 2 substituents selected from (1') a C₁₋₆ alkyl optionally having 1 to 5 substituents selected from the Substituent group A, (2') a C2-6 alkenyl optionally having 1 to 5 substituents selected from the Substituent group A, (3') a C_{2-6} alkynyl optionally having 1 to 5 substituents selected from the Substituent group A, (4') a C₃₋₈ cycloalkyl optionally having 1 to 5 substituents selected from the Substituent group A, (5') a C₆₋₁₄ aryl optionally having 1 to 5 substituents selected from the Substituent group A, (6') a C₇₋₁₆ aralkyl optionally having 1 to 5 substituents selected from the Substituent group A, (7') a 5- to 14-membered heterocyclic group containing 1 to 4 hetero atoms, which are 1 or 2 different atoms selected from nitrogen, sulfur and oxygen atoms, in addition to carbon atoms, (8') a C1-6 alkyl-carbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (9') a C2-6 alkenyl-carbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (10') a C2-6 alkynyl-carbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (11') a C₃₋₈ cycloalkyl-carbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (12') a C₆₋₁₄ arylcarbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (13') a C₇₋₁₆ aralkyl-carbonyl optionally having 1 to 5 substituents selected from the Substituent group A and

3

Docket No.: 68136(46342)

(14') a 5- to 14-membered heterocyclic carbonyl containing 1 to 4 hetero atoms, which are 1 or 2 different atoms selected from nitrogen, sulfur and oxygen atoms, in addition to carbon atoms; R² represents (1) a branched C₃₋₆ alkyl optionally having 1 to 5 substituents selected from the Substituent group Λ with the proviso that 4H 1,3 Benzothiazin 4-one, 2 (1,1-dimethylothyl) is excluded;

(2) a C₃₋₈ eycloalkyl optionally having 1 to 5 substituents selected from the Substituent group A; (3) a C₉₋₁₄ fused homocyclic group optionally having 1 to 5 substituents selected from the Substituent group A; or

(4) a group represented by formula:

$$\begin{array}{c|c}
R^3 & R^4 \\
\hline
R^7 & R^6
\end{array}$$

(wherein, R³ and R² each independently represents(1) hydrogen atom;

- (2) fluorino atom;
- (3) bromine atom;
- (4) nitro;
- (5) cyano;
- (6) a C_{1.6}-alkyl optionally having 1-to 5 substituents selected from the Substituent-group A;
- (7) a C1-6 alkoxy optionally having 1 to 5 substituents selected from the Substituent group A;
- (8) a C₆₋₁₄ aryl optionally having 1-to-5 substituents selected from the Substituent group A;
- (9) a C1-6 alkyl-earbonyl optionally-having 1 to 5 substituents selected from the Substituent group A;
- (10) a C_{2.6} alkenyl carbonyl optionally having 1 to 5 substituents selected from the Substituent group A;
- (11) a G_{2 6}-alkynyl carbonyl-optionally having 1 to 5-substituents selected from the Substituent group A;
- (12) a C₃₋₈-cycloalkyl-carbonyl optionally having 1 to 5 substituents selected from the Substituent group A;

Docket No.: 68136(46342)

(13) a C₆₋₁₄-aryl carbonyl optionally having 1 to 5 substituents selected from the Substituent group A;

(14) a C₇₋₁₆ aralkyl-carbonyl-optionally having 1 to 5 substituents selected from the Substituent group A;

(15) a 5- to 14 membered heterocyclic carbonyl containing 1 to 4 hetero atoms, which are 1 or 2 different atoms selected from nitrogen, sulfur and oxygen atoms, in addition to carbon atoms; (16) a C1-6 alky/sulfonyl optionally having 1-to-5 substituents selected from the Substituent group A; (17) a carbamoyl optionally having 1 or 2 substituents selected from (1') a C1-6 alkyl optionally having 1 to 5 substituents selected from the Substituent group A, (2') a C2-6 alkenyl-optionally having 1 to 5 substituents selected from the Substituent group A, (3') a C2 & alkynyl optionally having 1-to 5 substituents-selected from the Substituent group A, (4') a C3-8-eyelealkyl optionally having 1 to 5 substituents selected from the Substituent group A, (5') a C6-14 aryl optionally having 1 to 5 substituents selected from the Substituent group A, (6') a-C2-16 aralkyl-optionally having 1 to 5 substituents selected from the Substituent group A, (7') a-5- to 14 membered-heterocyclic carbonyl containing 1 to 4 hetero atoms, which are 1 or 2 different atoms selected from nitrogen, sulfur and exygen atoms, in addition to carbon atoms, (8') a C1-6 alkyl earbonyl optionally having 1-to 5 substituents selected from the Substituent group A, (9') a C2-6 alkenyl-earbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (10') a C2-6 alkynyl carbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (11') a C1 s cycloalkyl carbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (12') a C6 14 arylearbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (13') a C7-16 aralkyl carbonyl-optionally having 1 to 5 substituents selected from the Substituent group A and (14') a 5 to 14 membered heterocyclic carbonyl containing 1 to 4 hetero atoms, which are 1 or 2 different atoms selected from nitrogen, sulfur and oxygen atoms, in addition to earbon atoms; or, (18) an amino optionally having 1 or 2 substituents selected from (1') a C1 6 alkyl optionally having 1 to 5 substituents selected from the Substituent group A, (2') a C2.6 alkenyl optionally having 1 to 5 substituents selected from the Substituent group A, (3') a C2-6 alkynyl optionally having 1 to 5 substituents selected from the Substituent group A, (4') a C3 8 eyeloalkyl optionally having 1 to 5 substituents selected from the Substituent group A, (5') a C₆₋₁₄ aryl-optionally having 1 to 5 substituents selected from the Substituent group A, (6') a C716 aralkyl optionally having 1 to 5

Docket No.: 68136(46342)

substituents selected from the Substituent group Λ , (7') a 5- to 14-membered heterocyclic earbonyl containing 1 to 4 hetero atoms, which are 1 or 2 different atoms selected from nitrogen, sulfur and exygen atoms, in addition to earbon atoms, (8') a $G_{1.6}$ alkyl earbonyl optionally having 1 to 5 substituents selected from the Substituent group Λ , (9') a $G_{2.6}$ alkenyl-carbonyl optionally having 1 to 5 substituents selected from the Substituent group Λ , (10') a $G_{2.6}$ alkynyl-earbonyl optionally having 1 to 5 substituents selected from the Substituent group Λ , (11') a $G_{2.6}$ eyelealkyl carbonyl optionally having 1 to 5 substituents selected from the Substituent group Λ , (12') a $G_{6.14}$ arylearbonyl optionally having 1 to 5 substituents selected from the Substituent group Λ , (13') a $G_{4.16}$ aralkyl earbonyl optionally having 1 to 5 substituents selected from the Substituent group Λ and (14') a 5- to 14-membered heterocyclic carbonyl containing 1 to 4 hetero atoms, which are 1 or 2 different atoms selected from nitrogen, sulfur and exygen atoms, in addition to carbon atoms; R^4 and R^6 each independently represents

- (1) hydrogen atom;
- (2) fluorine atom;
- (3) bromine atom;
- (4) hydroxy;
- (5) eyano;
- (6) a C₁₋₆ alkyl-having-1 to 3 substituents selected from carboxy, a halogen atom, a C₁₋₆ alkoxy carbonyl and a C₆₋₁₄ aryl-carbonylamino;
- (7) a G_{1.6}-alkexy optionally having 1 to 5 substituents selected from the Substituent group A;
- (8) a C₆₋₁₄ aryl optionally having 1 to 5 substituents selected from the Substituent group A;
- (9) a C_{1.6} alkyl carbonyl optionally having 1 to 5 substituents selected from the Substituent group A;
- (10) a C₂₋₆ alkenyl-carbonyl optionally having 1 to 5 substituents selected from the Substituent group A;
- (11) a C₂₋₆-alkynyl carbonyl optionally having 1 to 5-substituents-selected from the Substituent group A;
- (12) a G_{3 8} cycloalkyl carbonyl-optionally having 1 to 5 substituents selected from the Substituent group A;
- (13) a C₆₋₁₄ aryl carbonyl optionally having 1 to 5 substituents selected from the Substituent group

 A:

Docket No.: 68136(46342)

(14) a C₇₋₁₆ aralkyl carbonyl optionally having 1 to 5 substituents selected from the Substituent group A;

(15) a-5-to-14 membered heterocyclic carbonyl-containing 1-to-4 hetero atoms, which are 1 or 2 different atoms selected from nitrogen, sulfur and oxygen atoms, in addition to carbon atoms; (16) a C1-6-alkylsulfonyl optionally having 1 to 5-substituents selected from the Substituent group A; (17) a carbamoyl optionally having substituents selected from (1') a C1 6 alkyl optionally having 1 to 5-substituents selected-from the Substituent group A, (2') a C2 6-alkenyl optionally having 1 to 5 substituents selected from the Substituent group A, (3') a C2-6 alkynyl optionally having-1 to 5 substituents selected from the Substituent group A, (4') a C2 s cycloalkyl optionally having 1 to 5 substituents selected from the Substituent group A, (5') a C6 14 aryl optionally having 1 to 5 substituents selected from the Substituent group A, (6') a C2-16 aralkyl optionally having 1 to 5 substituents selected from the Substituent group A, (7') a 5 to 14 membered heterocyclic carbonyl containing 1 to 4 hetero atoms, which are 1 or 2 different atoms selected from nitrogen, sulfur and exygen atoms, in addition to carbon atoms, (8') a C16 alkyl earbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (9') a C2.6 alkenyl-carbonyl optionally having-1 to 5 substituents-selected from the Substituent group A, (10') a C2-6 allcynyl earbonyl optionally having 1-to-5-substituents-selected from the Substituent group A, (11') a C2-8 cycloalkyl-earbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (12') a C_{6 14} arylcarbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (13') a C7 16 aralleyl carbonyl optionally having 1 to 5 substituents selected from the Substituent group A and (14') a 5- to 14 membered heterocyclic carbonyl containing 1 to 4 hetero-atoms, which are 1 or 2 different atoms selected from nitrogen, sulfur and oxygen atoms, in addition to carbon atoms; (18) an amine optionally having 1 or 2 substituents selected from (1') a C1-6 alkyl optionally having 1 to 5 substituents selected from the Substituent group A, (2') a C2 alkenyl optionally having 1 to 5 substituents selected from the Substituent group A; (3') a C2-6 alkynyl optionally having 1 to 5 substituents selected from the Substituent group A, (4') a C2 & eyeloalkyl optionally having 1 to 5 substituents selected from the Substituent group A, (5') a C₆₋₁₄ aryl-optionally having 1 to 5 substituents selected from the Substituent group A, (6') a C7-16 aralkyl optionally having 1 to 5 substituents selected from the Substituent-group A, (7') a 5 to 14 membered heterocyclic carbonyl containing 1-to 4 hetero atoms, which are 1 or 2 different atoms solected from nitrogen, sulfur and

7

Docket No.: 68136(46342)

exygen atoms, in addition to carbon atoms, (8') a C₁₋₆ alkyl carbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (9') a C₂₋₆ alkenyl carbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (10') a C₂₋₆ alkynyl carbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (11') a C₂₋₈ cycloalkyl carbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (12') a C₆₋₁₄ arylearbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (13') a C₇₋₁₆ aralkyl carbonyl optionally having 1 to 5 substituents selected from the Substituent group A and (14') a 5- to 14 membered heterocyclic carbonyl containing 1 to 4 hetero-atoms, which are 1 or 2 different atoms selected from nitrogen, sulfur and exygen atoms, in addition to carbon atoms or (19) a C₁₋₆ alkoxy carbonyl optionally having 1-to 5 substituents selected from the Substituent group A; and

R⁵-represents

- (1)-hydrogen atom;
- (2) fluorine atom;
- (3) hydroxy;
- (4) cyano;
- (5) a C1-6-alkyl substituted with 1 to 5 halogon atoms;
- (6) a C₆₋₁₄-aryl optionally having 1-to 5 substituents selected from the Substituent group A;
- (7) a C1 6 alkyl-carbonyl optionally having 1 to 5-substituents selected from the Substituent group A;
- (8) a C_{2 6} alkenyl earbonyl optionally having 1 to 5 substituents selected from the Substituent group A;
- (9) a G_{2 6}-alkynyl carbonyl optionally having 1 to 5-substituents selected from the Substituent group

 A:
- (10) a C₃₋₈ eyeloalkyl earbonyl optionally having 1 to 5 substituents selected from the Substituent group A;
- (11) a C₆₋₁₄ aryl earbonyl optionally having 1 to 5 substituents selected from the Substituent group
- (12) a C₇₋₁₆ aralkyl-earbonyl optionally having 1 to 5 substituents selected from the Substituent group A;

Docket No.: 68136(46342)

(13) a 5- to 14 membered heterocyclic carbonyl containing 1 to 4 hetero atoms; which are 1 or 2 different atoms selected from nitrogen, sulfur and oxygen atoms, in addition to carbon atoms; (14) a carbamoyl optionally having 1 or 2 substituents selected from (1') a C1 6 alkyl optionally having 1-to-5 substituents selected from the Substituent group A, (2') a C26-alkenyl optionally having 1 to 5 substituents-selected from the Substituent group A, (3') a C2 6 alkymyl optionally having 1 to 5 substituents selected from the Substituent-group A, (4') a C3 & eyeloalkyl optionally having 1 to 5 substituents selected from the Substituent group A, (5') a C₆₋₁₄ aryl optionally having 1 to 5 substituents selected from the Substituent group A, (6') a C2 16 aralkyl optionally having 1 to 5 substituents selected from the Substituent group A, (7') a 5- to 14 membered heterocyclic carbonyl containing 1 to 4 hotoro atoms, which are 1 or 2 different atoms selected from nitrogen, sulfur and oxygen atoms, in addition to carbon atoms, (8') a C1.6 alkyl carbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (9') a C2 6 alkenyl carbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (10') a C2 6 alkynyl carbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (11') a G1 g cycloalkyl-curbonyl optionally having 1-to 5 substituents selected from the Substituent group A, (12') a C₆₋₁₄ arylcarbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (13') a Cr 16 aralkyl-carbonyl-optionally having 1-to-5 substituents selected from the Substituent group A and (14') a 5 to 14 membered heterocyclic earbonyl containing 1 to 4-hetero atoms, which are 1 or 2 different-atoms selected from nitrogen, sulfur and exygen-atoms, in addition to earbon atoms, or (15) an amine optionally having 1 or 2 substituents selected from (1') a C1 6 alkyl optionally having 1-to 5 substituents selected from the Substituent group A, (2') a C2 & alkenyl optionally having 1 to 5 substituents selected from the Substituent group A, (3') a C2.6 alkynyl optionally having 1 to 5 substituents selected from the Substituent group-A, (4') a-C₂₋₈ cycloalkyl optionally having 1 to-5 substituents selected from the Substituent group A, (5') a C₆₋₁₄ aryl optionally having 1 to 5 substituents selected from the Substituent group A, (6') a C2 16 aralkyl-optionally having 1 to 5 substituents selected from the Substituent group A, (7') a 5 to 14 membered heterocyclic carbonyl containing 1 to 4 hetere atoms, which are 1 or 2 different atoms selected from nitrogen, sulfur and oxygen atoms, in addition to earbon atoms, (8") a G1 6 alkyl carbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (9') a C2 6 alkenyl-earbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (10') a C2-6 alkynyl-carbonyl-optionally

Docket No.: 68136(46342)

having 1 to 5 substituents selected from the Substituent group A, (11') a C₃ s-cycloalkyl-earbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (12') a C₆₋₁₄ aryl earbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (13') a C₇₋₁₆ aralkyl-carbonyl-optionally having 1 to 5 substituents selected from the Substituent group A and (14') a 5 to 14-membered heterocyclic earbonyl containing 1 to 4-hetero atoms, which are 1 or 2 different atoms selected from nitrogen, sulfur and oxygen atoms, in addition to carbon atoms); is a group represented by formula:

(wherein R^{4"} represents hydrogen atom or cyano, and R^{5"} represents hydrogen atom, a C₁₋₆ alkylcarbonyl or a C₁₋₆ alkylcarbonylamino); and,

n is an integer of 0 to 4], or a salt thereof.

2-6. (Canceled)

7. (Previously presented) A 1, 3-benzothiazinone derivative, which is

2-(3-cyanophenyl)-4H-1,3-benzothiazin-4-one,

2-(4-acetylphenyl)-4H-1,3-benzothiazin-4-one,

2-(4-methylsulfonylphenyl)-4H-1,3-benzothiazin-4-one,

2-(4-acetylaminophenyl)-4H-1,3-benzothiazin-4-one, or

2-(3-trifluoromethylphenyl)-4H-1,3-benzothiazin-4-one.

8-10. (Canceled)

11. (Previously presented) A pharmaceutical composition comprising the compound according to claim 1 and a pharmaceutically acceptable carrier.

12-19. (Canceled)

BQ\$2 725953.1

Docket No.: 68136(46342)

20. (Previously presented) A compound represented by formula:

wherein, R² represents a group represented by formula:

$$R^3$$
 R^4
 R^5
 R^6

wherein, one of R3 and R7 represents hydrogen atom, and the other is a C1-6 alkyl optionally having 1 to 5 substituents selected from the Substituent group A or a C₁₋₆ alkoxy optionally selected from the Substituent group A; and R4, R5 and R6 each represents hydrogen atom; one of R4 and R6 represents hydrogen atom, and the other is a bromine atom, cyano, an alkyl having a substituent selected from carboxy, a halogen atom, an alkoxycarbonyl and an arylcarbonylamino, a C_{1-6} alkoxy optionally having 1 to 5 substituents selected from the Substituent group A, an optionally substituted amino or alkoxycarbonyl and R3, R7 and R5 each represents hydrogen atom; and R5 represents hydroxy, cyano, an alkyl substituted with a halogen atom, aryl, an acyl, a carbamoyl optionally having 1 or 2 substituents selected from (1') a C1-6 alkyl optionally having 1 to 5 substituents selected from the Substituent group A, (2') a C2-6 alkenyl optionally having 1 to 5 substituents selected from the Substituent group A, (3') a C2-6 alkynyl optionally having 1 to 5 substituents selected from the Substituent group A, (4') a C₃₋₈ cycloalkyl optionally having 1 to 5 substituents selected from the Substituent group A, (5') a C₆₋₁₄ aryl optionally having 1 to 5 substituents selected from the Substituent group A, (6') a C₇₋₁₆ aralkyl optionally having 1 to 5 substituents selected from the Substituent group A, (7') a 5- to 14-membered heterocyclic carbonyl containing 1 to 4 hetero atoms, which are 1 or 2 different atoms selected from nitrogen, sulfur and oxygen atoms, in addition to carbon atoms, (8') a C1-6 alkyl-carbonyl optionally having 1 to 5

Docket No.: 68136(46342)

substituents selected from the Substituent group A, (9') a C₂₋₆ alkenyl-carbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (10') a C₂₋₆ alkynyl-carbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (11') a C₃₋₈ cycloalkyl-carbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (12') a C₆₋₁₄ aryl-carbonyl optionally having 1 to 5 substituents selected from the Substituent group A, (13') a C₇₋₁₆ aralkyl-carbonyl optionally having 1 to 5 substituents selected from the Substituent group A and (14') a 5- to 14-membered heterocyclic carbonyl containing 1 to 4 hetero atoms, which are 1 or 2 different atoms selected from nitrogen, sulfur and oxygen atoms, in addition to carbon atoms, or an amino optionally having 1 or 2 substituents selected from (1') a C₁₋₆ alkyl optionally having 1 to 5 substituents selected from the Substituent group A, (2') a C₂₋₆ alkenyl optionally having 1 to 5 substituents selected from the Substituent group A and R³, R⁴, R⁶ and R⁷ each represents hydrogen atom, or a salt thereof.

- 21. (Previously presented) The compound according to claim 20, wherein one of R⁴ and R⁶ represents hydrogen atom, and the other is bromine atom, (iv) hydroxyl, (v) cyano, (vi) a carboxy-substituted alkyl, (vii) a C₁₋₆ alkoxy optionally having 1 to 5 substituents selected from the Substituent group A, or an amino optionally having 1 or 2 substituents selected from (1') a C₁₋₆ alkyl optionally having 1 to 5 substituents selected from the Substituent group A, (2') a C₂₋₆ alkenyl optionally having 1 to 5 substituents selected from the Substituent group A and R³, R⁷ and R⁵ each represents hydrogen atom.
- 22. (Previously presented) The compound according to claim 20, wherein, R² represents: a group represented by formula:

$$R^3$$
 R^4
 R^5
 R^6

wherein: (I) one of R^3 and R^7 represents: hydrogen atom, and the other is a C_{1-6} alkyl optionally having 1 to 5 substituents selected from the Substituent group A, wherein Substituent group A BOS2 725953.1

Docket No.: 68136(46342)

consists of a C_{1-6} alkyl-carbonyl optionally having 1 to 5 '1 substituents selected from (1') a halogen atom, (2') a C₁₋₃ alkylenedioxy, (3') nitro, (4') cyano, (5') a C₁₋₆ alkyl which may be substituted with 1 to 5 halogen atoms, (6') a C₂₋₆ alkenyl which may be substituted with 1 to 5 halogen atoms, (7') a carboxy-C₂₋₆ alkenyl, (8') a C₂₋₆ alkynyl which may be substituted with 1 to 5 halogen atoms, (9') a C₃₋₈ cycloalkyl which may be substituted with 1 to 5 halogen atoms, (10') a C₆₋₁₄ aryl, (11') a C₁₋₆ alkoxy which may be substituted with 1 to 5 halogen atoms, (12') a C_{1.6} alkoxy- carbonyl-C_{1.6} alkoxy, (13') hydroxyl, (14') a C₆₋₁₄ aryloxy, (15') a C₇₋₁₆ aralkyloxy, (16') mercapto, (17') a C₁₋₆ alkylthio which may be substituted with 1 to 5 halogen atoms, (18') a C₆₋₁₄ arylthio, (19') a C₇₋₁₆ aralkylthio, (20') amino, (21') a mono-C₁₋₆ alkylamino, (22') a mono-C₆₋₁₄ arylamino, (23') a di-C₁₋₆ alkylamino, (24') a di-C₆₋₁₄ arylamino, (25') formyl, (26') carboxy, (27') a C₁₋₆ alkyl-carbonyl, (28') a C₃₋₈ cycloalkyl-carbonyl, (29') a C₁₋₆ alkoxy-carbonyl, (30') a C₆₋₁₄ aryl-carbonyl, (31') a C₇₋₁₆ aralkyl-carbonyl, (32') a C_{6-14} aryloxy-carbonyl, (33') a C_{7-16} aralkyloxy- carbonyl, (34') a 5- or 6membered heterocyclic carbonyl, (35') carbamoyl, (36') a mono- C₁₋₆ alkyl-carbamoyl, (37') a di-C1-6alkyl-carbamoyl, (38') a mono-C₆₋₁₄ aryl-carbamoyl, (39') a 5- or 6-membered heterocyclic carbamoyl, (40') a C₁₋₆ alkylsulfonyl, (41') a C₆₋₁₄ arylsulfonyl, (42') formylamino, (43') a C₁₋₆ alkylcarbonylamino, (44') a C₆₋₁₄ aryl- carbonylamino, (45') a C₁₋₆ alkoxy-carbonylamino, (46') a C₁₋₆ alkylsulfonylamino, (47') a C₆₋₁₄ arylsulfonylamino, (48') a C₁₋₆ alkyl-carbonyloxy, (49') a C₆₋₁₄ arylcarbonyloxy, (50') a C₁₋₆ alkoxy-carbonyloxy, (51') a mono-C₁₋₆ alkyl-carbamoyloxy, (52') a di-C₁₋₆ alkyl-carbamoyloxy, (53') a mono-C₆₋₁₄ aryl-carbamoyloxy, (54') nicotinoyloxy, (55') a 5- to 7membered saturated cyclic amino, (56') a 5- to 10-membered aromatic heterocyclic group and (57') sulfo; a C₁₋₆ alkoxy optionally having 1 to 5 substituents selected from Substituent group A; and R⁴, R⁵ and R6 each represents hydrogen atom; or

(II) one of R⁴ and R⁶ each independently represents:

hydrogen atom; and

the other is bromine atom; cyano; a C_{1-6} alkyl having 1 to 3 substituents selected from carboxy, a halogen atom, a C_{1-6} alkoxy-carbonyl and a C_{6-14} aryl-carbonylamino; a C_{1-6} alkoxy optionally having 1 to 5 substituents selected from the Substituent group A, an amino having a C_{1-6} alkyl-carbonyl, a C_{1-6} alkoxy-carbonyl or

Docket No.: 68136(46342)

(III) R^5 represents: hydroxy; cyano; a C_{1-6} alkyl substituted with 1 to 5 halogen atoms; a C_{6-14} aryl; a C_{1-6} alkyl-carbonyl; a carbamoyl having 2 C_{1-6} alkyl groups or an amino having a C_{1-6} alkyl-carbonyl group.

23. (Previously presented) The compound according to claim 20, wherein R² is a group represented by formula:

(wherein (1) R^3 represents a C_{1-6} alkoxy or a C_{1-6} alkyl substituted with 1 to 5 halogen atoms, and R^4 and R^5 each represents hydrogen atom; (2) R^4 represents bromine atom, cyano, a C_{1-6} alkyl having 1 to 3 substituents selected from carboxy, a halogen atom, a C_{1-6} alkoxy-carbonyl and a C_{6-14} aryl-carbonylamino, a C_{1-6} alkoxy substituted with a C_{1-6} alkoxy-carbonyl or a C_{1-6} alkyl-carbonylamino, and R^3 and R^5 each represents hydrogen atom; or (3) R^5 represents hydroxy, cyano, a C_{1-6} alkyl substituted with 1 to 5 halogen atoms, a C_{6-14} aryl, a C_{1-6} alkyl-carbonyl, a di- C_{1-6} alkyl-carbonyl or a C_{1-6} alkyl-carbonylamino, and R^3 and R^4 each represents hydrogen atom).

24. (Previously presented) The compound according to claim 23, wherein R² is a group represented by formula:

(wherein (1) $R^{3'}$ represents a C_{1-6} alkoxy or a C_{1-6} alkyl substituted with 1 to 5 halogen atoms, and $R^{4'}$ and $R^{5'}$ each represents hydrogen atom; (2) $R^{4'}$ represents bromine atom, cyano, a C_{1-6} alkyl having 1 to 3 substituents selected from carboxy, a halogen atom, a C_{1-6} alkoxy-carbonyl and a C_{6-14} alyl-carbonylamino, a C_{1-6} alkoxy substituted with a C_{1-6} alkoxy-carbonyl or a C_{1-6} alkyl-carbonylamino, and $R^{3'}$ and $R^{5'}$ each represents hydrogen atom; or (3) $R^{5'}$ represents hydroxy, cyano,

Docket No.: 68136(46342)

a C_{1-6} alkyl substituted with 1 to 5 halogen atoms, a C_{6-14} aryl, a C_{1-6} alkyl-carbonyl, a di- C_{1-6} alkyl-carbonylamino, and $R^{3'}$ and $R^{4'}$ each represents hydrogen atom.

25. (Previously presented) The compound according to claim 23, wherein R² is a group represented by formula:

(wherein (1) $R^{3'}$ represents a C_{1-6} alkyl substituted with 1 to 5 halogen atoms, and $R^{4'}$ and $R^{5'}$ each represents hydrogen atom; (2) $R^{4'}$ represents cyano, a C_{1-6} alkyl having 1 to 3 substituents selected from carboxy, a halogen atom, a C_{1-6} alkoxy-carbonyl and a C_{6-14} aryl-carbonylamino, a C_{1-6} alkoxy substituted with a C_{1-6} alkoxy-carbonyl or a C_{1-6} alkyl-carbonylamino, and $R^{3'}$ and $R^{5'}$ each represents hydrogen atom; or (3) $R^{5'}$ represents cyano, a C_{1-6} alkyl substituted with 1 to 5 halogen atoms, a C_{6-14} alyl or a C_{1-6} alkyl-carbonylamino, and $R^{3'}$ and $R^{4'}$ each represents hydrogen atom.

26. (Previously presented) The compound according to claim 20, wherein R² is a group represented by formula:

(wherein (1) $R^{4"}$ represents cyano and $R^{5"}$ represents hydrogen atom, or (2) $R^{4"}$ represents hydrogen atom and $R^{5"}$ represents a C_{1-6} alkyl-carbonyl or a C_{1-6} alkyl- 1 carbonylamino).

27. (Previously presented) A pharmaceutical composition comprising the compound according to claim 20 and a pharmaceutically acceptable carrier.

28. (Canceled)

Docket No.: 68136(46342)

Application No. 10/537,520 Amendment dated March 12, 2009

29. (Canceled)